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ALLOY ANALYSIS INSTRUMENT SAVES REAGENTS;
DEVELOP NEW MILLING CUTTER

MIXED BRIGADES BOOST TECHNICAL LEVEL -- Tallin, Sovetskaya Estoniya,
20 Aug 50

Close collaboration of Stakhanovites and engineers in mixed brigades has played an important role in the efforts of the Tallin Machine-Building Plant to improve its production technology. This collaboration has been successful in the introduction of automatic electric welding, making it possible to weld together sheets of different thicknesses, and to reduce welding time by four-fifths.

Formerly, metal was cut by hand. Now automatic oxygen cutting is in effect, and parts of the most complex configuration may be cut from thick iron sheet, so cleanly and precisely as to obviate subsequent machining. This advance has enabled the plant not only to speed up production, but to increase its range of products.

Over 40 percent of the machinists are applying high-speed cutting methods on lathes and milling machines. A mixed brigade in the machine shop has succeeded in introducing vertical thread cutting.

The laboratories have been equipped with calorimeters, making it possible to determine the amount of alloyed elements in the metal without wasting expensive reagents. An instrument which can determine the heat value of fuels has been set up.

Several more mixed brigades will be formed, with the aim of further improving technological progress and productivity in the plant.

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INSTALL NEW MILLING CUTTERS -- Viln'yus, Sovetskaya Litva, 22 Aug 50

The Kramatorsk Machine-Building Plant imeni Stalin has turned over its reduction-mechanism shop to high-speed work methods. In the gear-cutting section of the shop, all machine tools are equipped with the new Progress milling cutter, designed by Eng'r Aleksandr Sidorenko. The designer visits the section as a permanent consultant on the utilization of the Progress millers.

DEVELOP CENTRIFUGAL SHOT-HARDENER -- Moscow, Vechernyaya Moskva, 10 Jun 50

The laboratory of the All-Union Scientific Research Institute for Technology and Machine Building has completed a new device for cold-hardening the surfaces of parts.

The parts are held secure inside the thick iron chamber of the machine, and pig-iron shot, thrown at great speed from a wheel by centrifugal force, bombards the surface of the part. The surface then takes on the general characteristics of metal which has been forged.

REPAIR PLANT ADOPTS STAKHANOVITE METHODS -- Moscow, Trud, 24 Aug 50

At the beginning of this year, the Moscow Kauchuk Plant took the initiative for setting up Stakhanovite plans to increase labor productivity. This good beginning was supported by the enterprises of Ashkhabad.

The Machinery Repair Plant imeni 20-letiya Turkmenskoy SSR is the first in the republic to set up such a plan. A technical conference was held to discuss the plan, and practical measures were designated for improving technology.

More than 50 suggestions were set down in the Stakhanovite plan, many of which have already been carried out. About 60 operations in the machining of parts for petroleum engines were converted to high-speed methods. An apparatus was designed for diamond boring of bearings. Cranes were erected for hoisting heavy parts. Control posts were equipped with measuring instruments. As a result, production costs were lowered, labor productivity increased, and output of petroleum engines became larger.

INNOVATOR USES ONE MACHINE FOR WORK OF TWO -- Tbilisi, Pravda Vostoka, 5 Apr 50

A worker at the Kishinev Machinery Plant has devised a method of performing the entire cycle of boring operations in the manufacture of a huge base for a pneumatic hammer on a single heavy horizontal boring machine. According to the plan, these operations were to be done on two machines, with machining time set at 150 hours. Working with his single machine, the innovator completes the cycle in one sixth that time.

CALL FOR FOUNDRY WORKERS -- Moscow, Vechernyaya Moskva, 22 Aug 50

The Machinery Plant of the Shcherbakov Rayon Industrial Trust needs foundry workers skilled in hot stamping, some apprentice foundry workers, and a bookkeeper trained in industrial accounting. Living quarters will be provided for workers who need them. -- Advertisement.

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